



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

SP197

**RBD29905**  
**Job Sheet 195942-A**



Part No: RBD29905

Job Qty: 1 pcs ✓

Part Name: Engine Hoist Rope Pulley System



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 7/24/19

Job Tracking No:

Due Date: 7/16/19

Created By: Linda Lacelle

Type: SOLD

Description:

Note: DWG RBD29905 Rev G IPP Rev A 17.11.15 New issue DP Verify DD/IPP Rev B DWG update DP Verify DD

Ship Via:

### Bill of Materials

### Job Routing

| Op No | Operation                   | Qty   | Start Date | Due Date | Standard             | Workcenter/Supplier   |           | Sign-off    |
|-------|-----------------------------|-------|------------|----------|----------------------|-----------------------|-----------|-------------|
|       |                             |       |            |          | Setup Run<br>Hrs Hrs | Workcenter / Supplier | Lead Time |             |
| 110   | Small Fab - 1               | 1 pcs | 7/16/19    |          | 0.00 2.00            | Small Fab - 1         |           |             |
|       |                             |       |            |          |                      | Small Fab - 2         |           | MCC         |
|       |                             |       |            |          |                      | Small Fab - 3         |           |             |
|       |                             |       |            |          |                      | Small Fab - 4         |           |             |
|       |                             |       |            |          |                      | Small Fab - 5         |           |             |
|       |                             |       |            |          |                      | Small Fab - 6         |           |             |
|       |                             |       |            |          |                      | Small Fab - 7         |           |             |
| 120   | QC 5                        | 1 pcs | 7/16/19    |          | 0.00 0.00            | QC 5 - 10             |           |             |
|       |                             |       |            |          |                      | QC 5 - 12             |           |             |
|       |                             |       |            |          |                      | QC 5 - 17             |           |             |
|       |                             |       |            |          |                      | QC 5 - 18             |           |             |
|       |                             |       |            |          |                      | QC 5 - 19             |           |             |
|       |                             |       |            |          |                      | QC 5 - 22             |           | DAS         |
|       |                             |       |            |          |                      | QC 5 - 24             |           | 61          |
|       |                             |       |            |          |                      | QC 5 - 3              |           | 9-89        |
|       |                             |       |            |          |                      | QC 5 - 43             |           |             |
|       |                             |       |            |          |                      | QC 5 - 49             |           |             |
|       |                             |       |            |          |                      | QC 5 - 51             |           |             |
|       |                             |       |            |          |                      | QC 5 - 58             |           |             |
|       |                             |       |            |          |                      | QC 5 - 68             |           |             |
|       |                             |       |            |          |                      | QC 5 - 9              |           |             |
|       |                             |       |            |          |                      | QC 5 - 50             |           |             |
|       |                             |       |            |          |                      | QC 5 - 30             |           |             |
|       |                             |       |            |          |                      | QC 5 - 40             |           |             |
| 130   | Packaging 3-1 - Stock - B4B | 1 pcs | 7/16/19    |          | 0.00 0.00            | Packaging 3 - 1 - B4B |           |             |
|       |                             |       |            |          |                      | Packaging 3 - 2 - B4B |           |             |
|       |                             |       |            |          |                      | Packaging 3 - 3 - B4B |           | Bin: CAT BD |
|       |                             |       |            |          |                      | Packaging 3 - 4 - B4B |           |             |
|       |                             |       |            |          |                      | Packaging 3 - 5 - B4B |           |             |
|       |                             |       |            |          |                      | Packaging 3 - 6 - B4B |           |             |
|       |                             |       |            |          |                      | Packaging 3 - 7 - B4B |           |             |



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CANADA  
TEL.: 1 613 632-5200  
Email: sales@dartaero.com  
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Container No: S203527



Part: RBD29905

Job No: 195942 -- A

Serial No/Batch: S203527

Revision: G

Inspector:

Exp Date:

Instructions:

Date: 08/07/19

|                |       |         |           |                 |                        |        |
|----------------|-------|---------|-----------|-----------------|------------------------|--------|
|                |       |         |           |                 | Packaging 3 - 8 - B4B  |        |
|                |       |         |           |                 | Packaging 3 - 9 - B4B  |        |
|                |       |         |           |                 | Packaging 3 - 10 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 11 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 12 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 13 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 14 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 15 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 16 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 17 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 18 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 19 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 20 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 21 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 22 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 23 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 24 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 25 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 26 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 27 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 28 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 29 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 30 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 31 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 32 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 33 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 34 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 35 - B4B |        |
|                |       |         |           |                 | Packaging 3 - 36 - B4B |        |
| 140 QC 21 - SA | 1 pcs | 7/16/19 | 0.00 0.00 | QC 21 - SA - 21 | →                      | GA-TBD |
|                |       |         |           | QC 21 - SA - 70 |                        |        |
|                |       |         |           | QC 21 - SA - 53 |                        |        |

Part Op **110** - -Assemble as per DWG. Sheet 1 & 2 \*\*\*Trim rivets prior to bucking as per note 8 sheet 2\*\*\*  
 Descriptions: **120** - (QC5- Inspect part completeness to step on W/O)  
**130** - (Identify as per dwg & Stock Location: \_\_\_\_\_)  
**140** - (QC21- Final Inspection - Work Order Release)

DAS  
21  
9-88

AUG 08 2019

### Job BOM

| Part / Item | Component Name                 | Quantity       | Operation         | Container                  |
|-------------|--------------------------------|----------------|-------------------|----------------------------|
| 97481A351   | Aluminum Rivet 1/4 Rnd X 1 1/4 | 2 Ea (2 ea)    | 110-Small Fab - 1 | 2X 5015397                 |
| 97481A357   | Aluminum Rivet 1/4 Rnd X 2     | 2 Ea (2 ea)    | 110-Small Fab - 1 | 5015398                    |
| RBD29905-1  | Side Plate                     | 4 pcs (4 ea)   | 110-Small Fab - 1 | 4X 5196967                 |
| RBD29905-11 | Short Center Pin               | 1 pcs (1 ea)   | 110-Small Fab - 1 | 5196303                    |
| RBD29905-13 | Long Center Pin                | 1 pcs (1 ea)   | 110-Small Fab - 1 | 5138559                    |
| RBD29905-15 | Center Plate                   | 5 pcs (5 ea)   | 110-Small Fab - 1 | 5X 5125983                 |
| RBD29905-3  | Cord Handle                    | 1 pcs (1 ea)   | 110-Small Fab - 1 | <del>5196688</del> 5196688 |
| RBD29905-5  | Hook                           | 4 pcs (4 ea)   | 110-Small Fab - 1 | 2X 5196646 2X 505 3125     |
| RBD29905-7  | Bushing                        | 14 pcs (14 ea) | 110-Small Fab - 1 | 12X 5195118 2X 5135397     |
| RBD29905-9  | Pulley                         | 7 pcs (7 ea)   | 110-Small Fab - 1 | 5X 5196309                 |
| W9710R      | Paracord                       | 50 ft (50 ea)  | 110-Small Fab - 1 | 5020859                    |

| Job Allocations                    |                |          |           |           |
|------------------------------------|----------------|----------|-----------|-----------|
| Operation                          | Component Part | Required | Inventory | Allocated |
| 110-Small Fab - 1                  | 97481A351      | 2        | 36        | 0         |
|                                    | 97481A357      | 2        | 34        | 0         |
|                                    | RBD29905-1     | 4        | 4         | 0         |
|                                    | RBD29905-11    | 1        | 7         | 0         |
|                                    | RBD29905-13    | 1        | 6         | 0         |
|                                    | RBD29905-15    | 5        | 7         | 0         |
|                                    | RBD29905-3     | 1        | 5         | 0         |
|                                    | RBD29905-5     | 4        | 18        | 0         |
|                                    | RBD29905-7     | 14       | 16        | 0         |
|                                    | RBD29905-9     | 7        | 10        | 0         |
|                                    | W9710R         | 50       | 249       | 0         |
| Part Specifications                |                |          |           |           |
| Specifications could not be found. |                |          |           |           |

Plex 7/24/19 8:42 AM dart.lacelle.linda





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**RBD29905**  
**Job Sheet 195942**



**Part No:** RBD29905

**Job Qty:** 4 pcs

**Part Name:** Engine Hoist Rope Pulley System



**Part Weight:** 0 lbs

**Status:** New

**Priority:** Medium

**Job Created:** 6/3/19

**Job Tracking No:**

**Created By:** Marie Lajeunesse

**Description:** *order 12776-16098*

**Due Date:** 7/16/19

**Type:** SOLD

**Note:** DWG RBD29905 Rev G IPP Rev A 17.11.15 New issue DP Verify DD/IPP Rev B DWG update DP Verify DD

**Ship Via:**

### Bill of Materials

### Job Routing

| Op No | Operation                   | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off   |
|-------|-----------------------------|-------|------------|----------|-----------|---------|-----------------------|-----------|------------|
|       |                             |       |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier | Lead Time |            |
| 110   | Small Fab - 1               | 4 pcs | 7/16/19    |          | 0.00      | 8.00    | Small Fab - 1         |           | <i>MLL</i> |
|       |                             |       |            |          |           |         | Small Fab - 2         |           |            |
|       |                             |       |            |          |           |         | Small Fab - 3         |           |            |
|       |                             |       |            |          |           |         | Small Fab - 4         |           |            |
|       |                             |       |            |          |           |         | Small Fab - 5         |           |            |
|       |                             |       |            |          |           |         | Small Fab - 6         |           |            |
|       |                             |       |            |          |           |         | Small Fab - 7         |           |            |
| 120   | QC 5                        | 4 pcs | 7/16/19    |          | 0.00      | 0.00    | QC 5 - 10             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 12             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 17             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 18             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 19             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 22             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 24             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 3              |           |            |
|       |                             |       |            |          |           |         | QC 5 - 43             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 49             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 51             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 58             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 68             |           |            |
| 130   | Packaging 3-1 - Stock - B4B | 4 pcs | 7/16/19    |          | 0.00      | 0.00    | QC 5 - 9              |           |            |
|       |                             |       |            |          |           |         | QC 5 - 50             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 30             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 40             |           |            |
|       |                             |       |            |          |           |         | Packaging 3 - 1 - B4B |           |            |
|       |                             |       |            |          |           |         | Packaging 3 - 2 - B4B |           |            |
|       |                             |       |            |          |           |         | Packaging 3 - 3 - B4B |           |            |
|       |                             |       |            |          |           |         | Packaging 3 - 4 - B4B |           |            |
|       |                             |       |            |          |           |         | Packaging 3 - 5 - B4B |           |            |
|       |                             |       |            |          |           |         | Packaging 3 - 6 - B4B |           |            |
|       |                             |       |            |          |           |         | Packaging 3 - 7 - B4B |           |            |



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**Container No:** S200038



**Part:** RBD29905

**Job No:** 195942

**Serial No/Batch:** S200038

**Revision:** G

**Inspector:**

**Exp Date:**

**Instructions:**

Date: 07/24/19

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|                |       |         |           |  |                        |  |
|----------------|-------|---------|-----------|--|------------------------|--|
|                |       |         |           |  | Packaging 3 - 8 - B4B  |  |
|                |       |         |           |  | Packaging 3 - 9 - B4B  |  |
|                |       |         |           |  | Packaging 3 - 10 - B4B |  |
|                |       |         |           |  | Packaging 3 - 11 - B4B |  |
|                |       |         |           |  | Packaging 3 - 12 - B4B |  |
|                |       |         |           |  | Packaging 3 - 13 - B4B |  |
|                |       |         |           |  | Packaging 3 - 14 - B4B |  |
|                |       |         |           |  | Packaging 3 - 15 - B4B |  |
|                |       |         |           |  | Packaging 3 - 16 - B4B |  |
|                |       |         |           |  | Packaging 3 - 17 - B4B |  |
|                |       |         |           |  | Packaging 3 - 18 - B4B |  |
|                |       |         |           |  | Packaging 3 - 19 - B4B |  |
|                |       |         |           |  | Packaging 3 - 20 - B4B |  |
|                |       |         |           |  | Packaging 3 - 21 - B4B |  |
|                |       |         |           |  | Packaging 3 - 22 - B4B |  |
|                |       |         |           |  | Packaging 3 - 23 - B4B |  |
|                |       |         |           |  | Packaging 3 - 24 - B4B |  |
|                |       |         |           |  | Packaging 3 - 25 - B4B |  |
|                |       |         |           |  | Packaging 3 - 26 - B4B |  |
|                |       |         |           |  | Packaging 3 - 27 - B4B |  |
|                |       |         |           |  | Packaging 3 - 28 - B4B |  |
|                |       |         |           |  | Packaging 3 - 29 - B4B |  |
|                |       |         |           |  | Packaging 3 - 30 - B4B |  |
|                |       |         |           |  | Packaging 3 - 31 - B4B |  |
|                |       |         |           |  | Packaging 3 - 32 - B4B |  |
|                |       |         |           |  | Packaging 3 - 33 - B4B |  |
|                |       |         |           |  | Packaging 3 - 34 - B4B |  |
|                |       |         |           |  | Packaging 3 - 35 - B4B |  |
|                |       |         |           |  | Packaging 3 - 36 - B4B |  |
| 140 QC 21 - SA | 4 pcs | 7/16/19 | 0.00 0.00 |  | QC 21 - SA - 21        |  |
|                |       |         |           |  | QC 21 - SA - 70        |  |
|                |       |         |           |  | QC 21 - SA - 53        |  |

Part Op 110 - Assemble as per DWG. Sheet 1 & 2 \*\*\*Trim rivets prior to bucking as per note 8 sheet 2\*\*\*  
 Descriptions: 120 - (QC5- Inspect part completeness to step on W/O)  
 130 - (Identify as per dwg & Stock Location: \_\_\_\_\_)  
 140 - (QC21- Final Inspection - Work Order Release)

## Job BOM

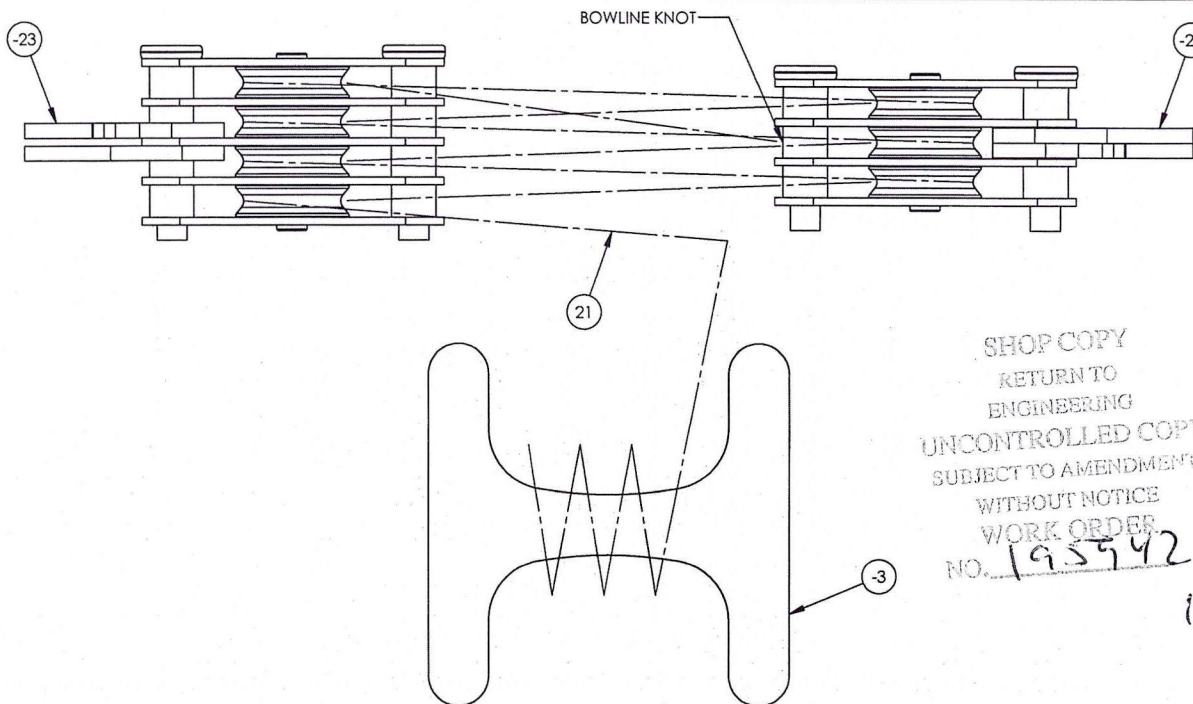
| Part / Item | Component Name                 | Quantity       | Operation         | Container |
|-------------|--------------------------------|----------------|-------------------|-----------|
| 97481A351   | Aluminum Rivet 1/4 Rnd X 1 1/4 | 8 Ea (2 ea)    | 110-Small Fab - 1 | 5015397   |
| 97481A357   | Aluminum Rivet 1/4 Rnd X 2     | 8 Ea (2 ea)    | 110-Small Fab - 1 | 5015398   |
| RBD29905-1  | Side Plate                     | 16 pcs (4 ea)  | 110-Small Fab - 1 | 5196967   |
| RBD29905-11 | Short Center Pin               | 4 pcs (1 ea)   | 110-Small Fab - 1 | 5196303   |
| RBD29905-13 | Long Center Pin                | 4 pcs (1 ea)   | 110-Small Fab - 1 | 5196305   |
| RBD29905-15 | Center Plate                   | 20 pcs (5 ea)  | 110-Small Fab - 1 | 5196990   |
| RBD29905-3  | Cord Handle                    | 4 pcs (1 ea)   | 110-Small Fab - 1 | 5196656   |
| RBD29905-5  | Hook                           | 16 pcs (4 ea)  | 110-Small Fab - 1 | 5196696   |
| RBD29905-7  | Bushing                        | 56 pcs (14 ea) | 110-Small Fab - 1 | 5195118   |
| RBD29905-9  | Pulley                         | 28 pcs (7 ea)  | 110-Small Fab - 1 | 5137999   |
| W9710R      | Paracord                       | 200 ft (50 ea) | 110-Small Fab - 1 | 5020939   |

| Job Allocations                    |                |          |           |           |
|------------------------------------|----------------|----------|-----------|-----------|
| Operation                          | Component Part | Required | Inventory | Allocated |
| 110-Small Fab - 1                  | 97481A351      | 8        | 44        | 0         |
|                                    | 97481A357      | 8        | 42        | 0         |
|                                    | RBD29905-1     | 16       | 0         | 0         |
|                                    | RBD29905-11    | 4        | 3         | 0         |
|                                    | RBD29905-13    | 4        | 2         | 0         |
|                                    | RBD29905-15    | 20       | 12        | 0         |
|                                    | RBD29905-3     | 4        | 3         | 0         |
|                                    | RBD29905-5     | 16       | 10        | 0         |
|                                    | RBD29905-7     | 56       | 2         | 0         |
|                                    | RBD29905-9     | 28       | 14        | 0         |
|                                    | W9710R         | 200      | 449       | 0         |
| Part Specifications                |                |          |           |           |
| Specifications could not be found. |                |          |           |           |

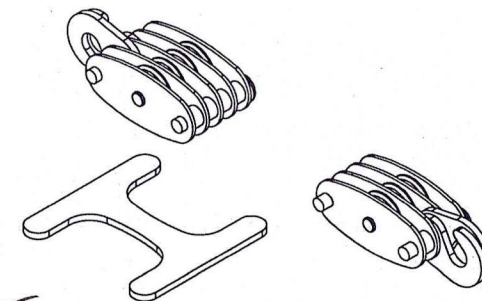
Plex 6/3/19 10:43 AM Dart.lajeunesse.marie



| ITEM # | QTY | PART #          | TITLE                                   | REV. | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ECN #   | DATE      | BY  | APPROVED |
|--------|-----|-----------------|-----------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|-----|----------|
| -3     | 1   | RBD29905-3      | CORD HANDLE                             | 1    | -3 CORD HANDLE LENGTHENED .25 AND WIDENED .5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -       | 7/14/06   | WP  | DW       |
| -23    | 1   | RBD29905-23     | 4 PULLEY ASSY                           | 2    | ADDED KNOT SPEC.'S, CHANGED -19 RIVET FROM Ø1/4x1-1/2, REORGANIZED AND ADDED NEW REV. LOG, TITLE BLOCK & BOM.                                                                                                                                                                                                                                                                                                                                                                                                                                      | -       | 9/14/07   | WP  | RW       |
| -25    | 1   | RBD29905-25     | 3 PULLEY ASSY                           | 2A   | CH'D USED ON MODEL FROM BELL 208 TO MD PER E.B.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -       | 9/17/10   | RJC | EB       |
| 21     | 1   | PARAGEAR#W9710R | TYPE IV NYLON CORD 3/16" DIA x 50Ft LG. | 3    | ADDED -15 MATERIAL, CH'D -19 P/N FROM 97481A357 RIVET TO 1-1/2 LONG, CH'D -1 CENTER HOLE FROM Ø.225, ADDED -11 & -13 TOLERANCE TO Ø.250 OER G.E. MOVED PARTS TO SEPARATE PAGES.                                                                                                                                                                                                                                                                                                                                                                    | -       | 4/16/12   | RJC | GE       |
|        |     |                 |                                         | 4    | UPDATED TO NEW DRAFTING STANDARD. CORRECTED -1 ENGRAVE FROM P/N TO T/N. CH'D -3 Ø.375 TO Ø.38. CH'D -7 Ø.375 TO Ø.37.                                                                                                                                                                                                                                                                                                                                                                                                                              | 15-0187 | 7/31/2015 | SM  | JAG      |
|        |     |                 |                                         | 5    | -1 CH'D DIM WAS 3X Ø.250 +.005-.000 IS 3X Ø.255 +.005-.000. -7 CH'D DIM WAS Ø.255 IS Ø.255 +.005-.000. -9 CH'D DIMS WAS Ø.375 +.005-.000 SLIP FIT WITH -11. -13 IS Ø.380 +.005-.000 (S.F. -11 & -13). WAS 50° IS 2X 50°. WAS R.03 IS 2X R.03. -11 CH'D MAT'L WAS 1018 IS 1018/1020 CR. ADDED FINISH SPEC QMSI-6.2.2, B.O. REV D. -13 CH'D MAT'L WAS 1018 IS 1018/1020 CR. ADDED FINISH SPEC QMSI-6.2.2, B.O. REV D. -15 CH'D DIM WAS Ø.375 +.005-.000 IS Ø.380 +.005-.000. -19 CH'D B/O REF WAS Ø1/4 X 1-1/2 (#97481A353) IS Ø1/4 X 2 (#97481A357) | 17-0066 | 3/20/2017 | DPD | JAG      |
|        |     |                 |                                         | F    | ASSY -23 & -25 ADDED, TEMPLATE UPDATED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 17-791  | 18.1.19   | VM  | ML       |
|        |     |                 |                                         | G    | CHANGED KNOT TO BOWLINE, ADD NOTE TO TRIM RIVET (ITEM 19) TO 1.65" LONG, REVISED COPYRIGHT DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 18-532  | 18.2.05   | ML  | ML       |



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SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 195942 MLC  
19-06-03



- NOTES:  
1) MATERIAL: N/A  
2) HEAT TREAT: N/A  
3) FINISH: N/A  
4) SPEC: N/A  
5) BREAK ALL SHARP EDGES: N/A  
6) IDENTIFICATION: N/A

# RBD29905 ENGINE HOIST ROPE PULLEY SYSTEM

|                                                                                                                                                                                                                                                                          |                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <b>DART AEROSPACE</b><br>Hawkesbury, Ontario, Canada                                                                                                                                                                                                                     |                                           |
| TITLE<br><b>ENGINE HOIST ROPE PULLEY SYSTEM</b>                                                                                                                                                                                                                          |                                           |
| PART NO.<br><b>RBD29905</b>                                                                                                                                                                                                                                              | REV<br><b>G</b>                           |
| TOOL NO.<br><b>RBD29905</b>                                                                                                                                                                                                                                              |                                           |
| UNLESS OTHERWISE SPECIFIED:<br>DIMENSIONS ARE IN INCHES<br>INTERPRET PER ASME Y14.5M-2009<br>DIMENSIONS APPLY AFTER FINISHING                                                                                                                                            |                                           |
| DESIGNED BY: VM 1/19/2018                                                                                                                                                                                                                                                | TOLERANCES:<br>XXX ± .005 FRACTIONS ± 1/8 |
| DRAWN BY: ML 02/05/2018                                                                                                                                                                                                                                                  | XX ± .01 ANGLES ± .5°                     |
| CHECKED BY: ML 02/05/2018                                                                                                                                                                                                                                                | X ± .1 SURFACE ROUGHNESS                  |
| MFG REVIEW BY: RQ 02/05/2018                                                                                                                                                                                                                                             | APPROVED BY: ML 02/05/2018                |
| SCALE: NTS                                                                                                                                                                                                                                                               | SHEET 1 OF 11                             |
| COPYRIGHT © 2007 BY DART AEROSPACE LTD<br>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. |                                           |

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                        |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Sequence #:                                                                                                                       | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | MRB (QSI042)           |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Completed By           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Lead hand / Supervisor |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | QC / QA Coordinator    |  |
| <b>Root Cause</b><br><br><div style="display: flex; flex-direction: column; align-items: flex-start;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Presservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |                        |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |